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Plumber's supplies

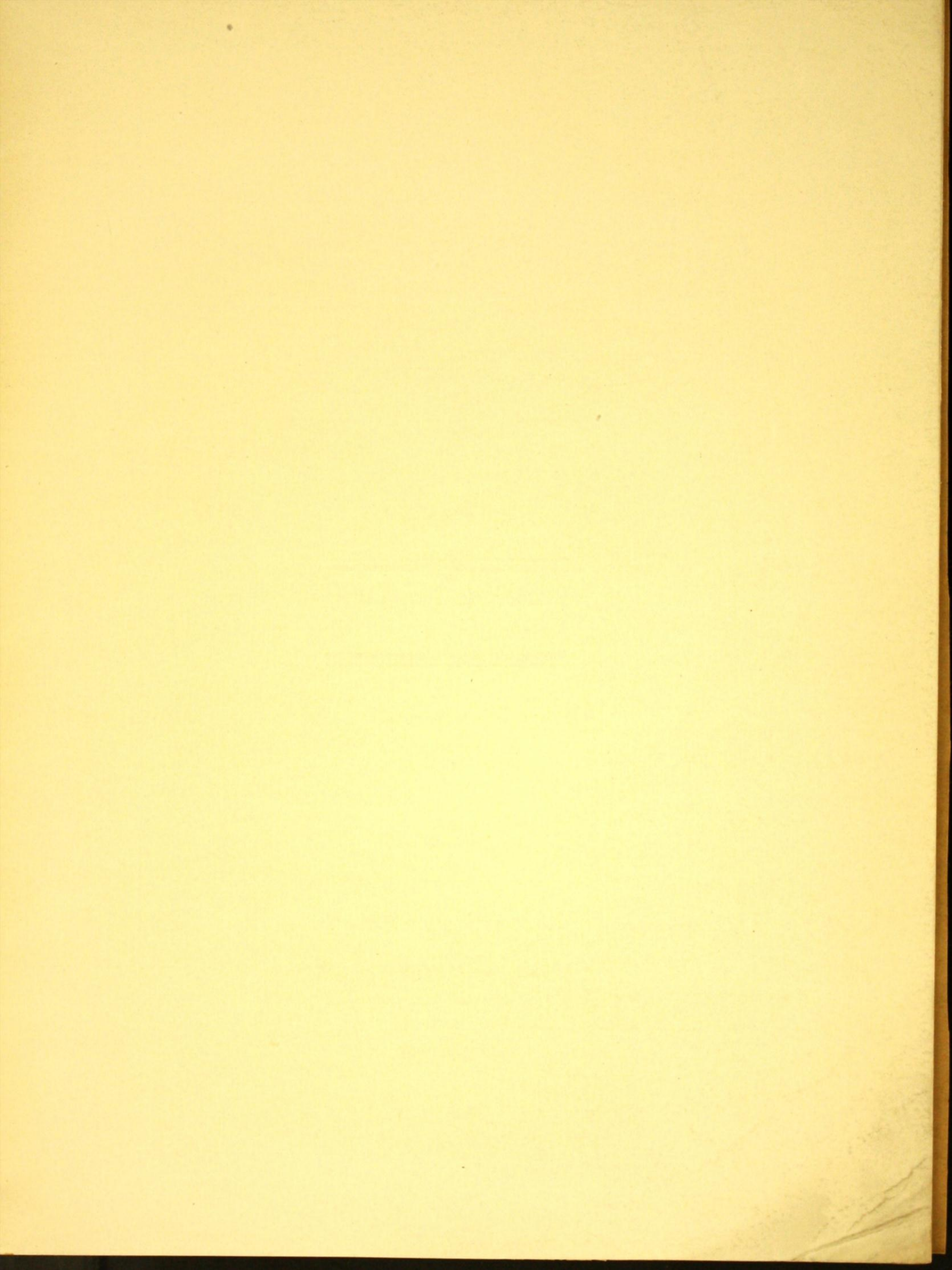
1907 CATALOGUE



FAWN

**SEAMLESS
STEEL BATH TUB COMPANY**

DETROIT, MICH.



Catalogue No. 1000
January 1, 1907

Pressed Steel Product

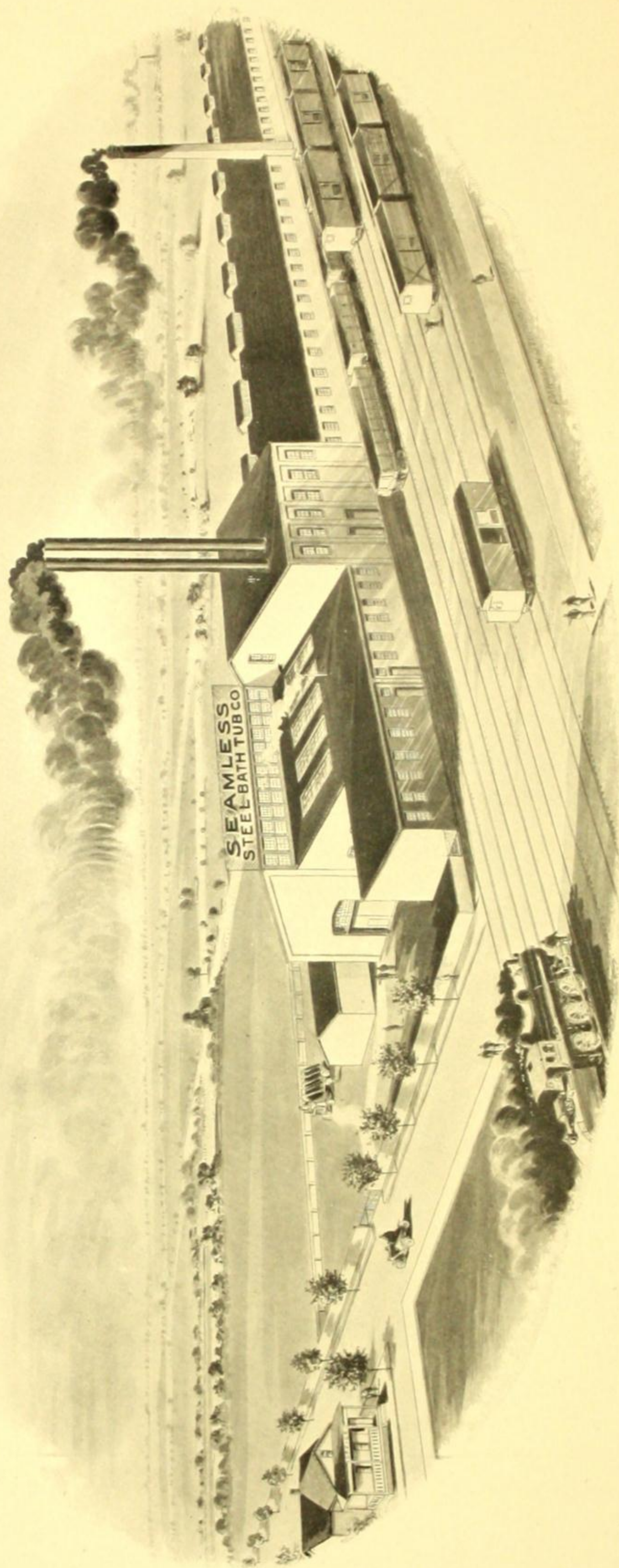
For Year 1907



Seamless Steel Bathtub Company

Detroit, Michigan, U. S. A.

Cable Address: "Fawn Detroit"



DETROIT PLANT
SEAMLESS STEEL BATH TUB COMPANY

Introductory

THE organization and successful launching of the Seamless Steel Bathtub Company presents a new industry in steel working that revolutionizes the manufacture of Bath Tubs. For years it has been tried in various ways to construct an article that would replace the cumbersome and unsightly cast iron tubs that have been in use up to the present time, but it remained for this company to successfully solve the problem.

Wood rimmed Steel Bath Tubs have been on the market for some time, but in such shape that they could only be used for the cheapest kind of installations, being made in three parts, which precluded porcelaining, and being most unsatisfactory in every respect.

The tubs manufactured by this company under the "Sloman" process (Patented) are constructed from a single sheet of steel, embodying the advantages of durability, smooth surface on the outside that permits of high decoration, light weight, taking the temperature of the water with little absorption of heat, the readiness with which it can be handled by the plumber, and the adaptability to a high Dresden finish in the porcelaining, also an economy in weight with reference to floor construction in apartment houses and hotels.

In presenting this product to the trade, we feel that we are offering an article superior to anything now on the market, and one which we fully guarantee in every respect.

Description of Plant and Process Used

The problems attending the pressing of a sheet of steel, slightly more than $\frac{1}{8}$ -inch thick, into the irregular shape of a bathtub, with its roll-shaped rim; the elimination of the wrinkles bound to occur in the steel, due to the sloping shaped end and sides, and finally the enameling of the tub both inside and out, were to say the least

The plant, when speeded up to its normal production, will have a capacity of 150 tubs a day. The principal equipment consists of three massive hydraulic presses. Two of these are 850-ton drawing presses, each weighing about 250,000 pounds. They are used for drawing the steel from the sheet into the form of the bath tub. The

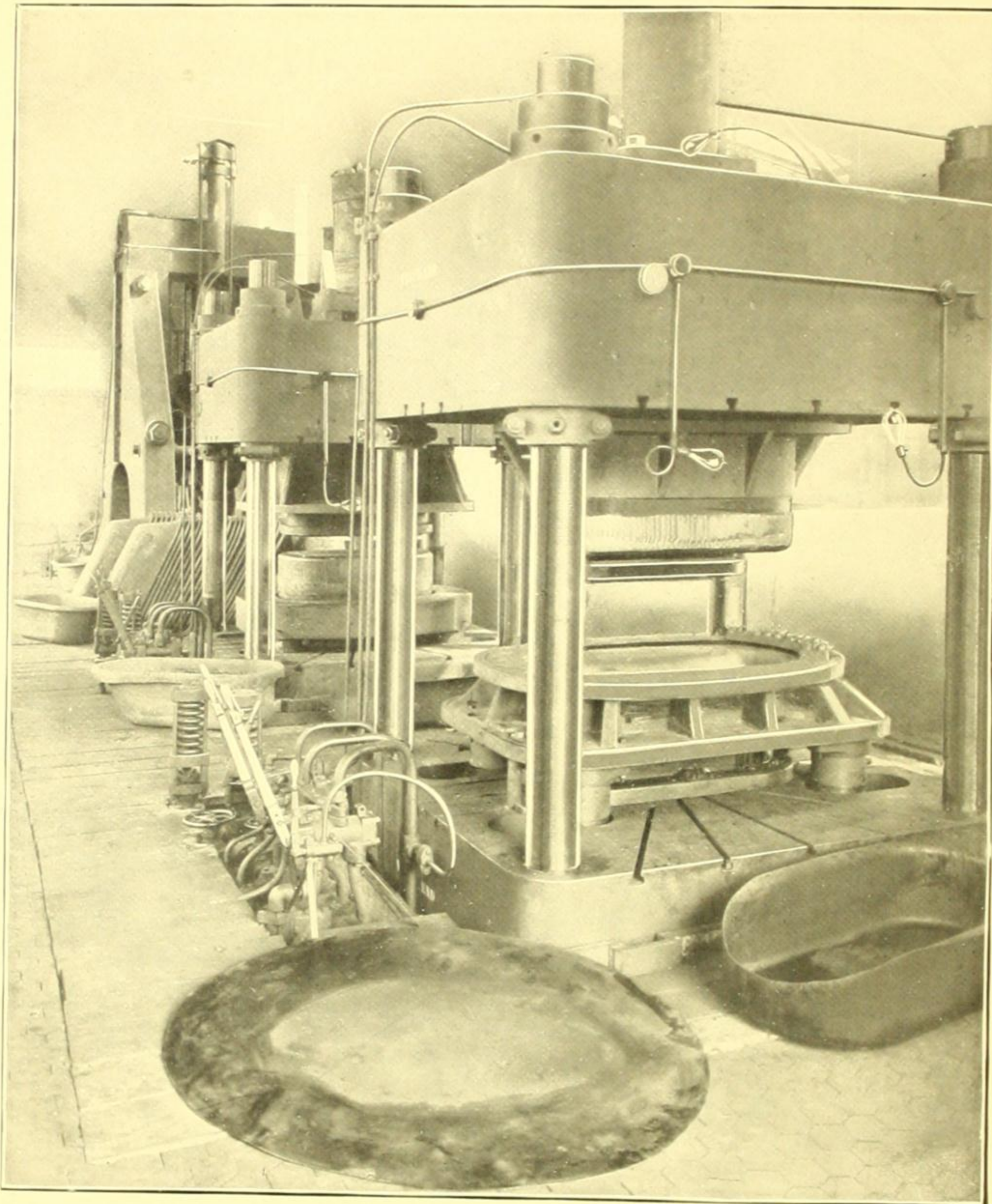


Figure 1—General View, Showing the Three Principal Presses Employed, and Specimens of the Work in its Various Stages of Formation

perplexing. The various methods through which the Seamless Steel Bathtub Company has solved them are not only interesting, but in certain instances are distinctly novel and of importance as contributions to the mechanical arts.

third press is the most important device used in the entire process. It is a most ingenious piece of machinery, performing functions never before sought to be accomplished in a similar manner. It is called a rocker-roller press, and is used for rolling out the wrinkles from the

drawn shapes and at the same time setting the metal so as to prevent distortion resulting from heating while the porcelain is being applied

This machine weighs about 350,000 pounds.

The Drawing Operations

The three presses are shown in Fig. 1, where specimens of the work in the various stages of process are also shown. The sheets, which are of No. 11 soft steel, 60 in. wide and 78 in. long, are first taken to a small rotary shear and trimmed to a slightly elliptical form. A crude oil lubricant is then applied to the outer edge of the surface

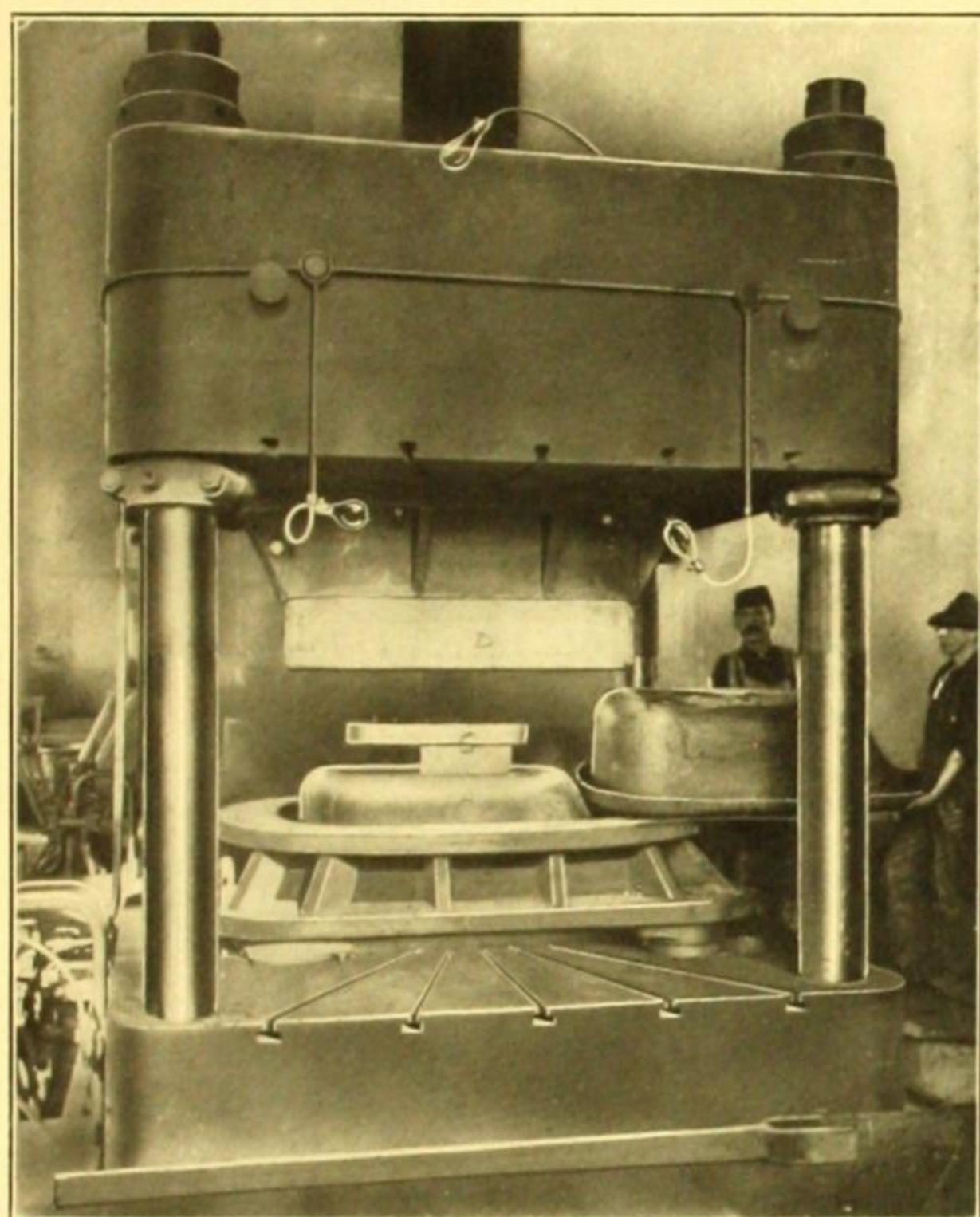


Figure 2—One of the Drawing Presses, Showing the Arrangement of Dies Used for the Final Drawing Operation.

and they are ready for the first rough drawing operation, appearing as the one shown in the foreground of Fig. 1.

The first drawing produces the oval cup-shaped form shown in the right of the foreground of Fig. 1. In this illustration the proper dies for this operation are shown in position on the middle machine of the group.

The first form, after being annealed, is then put through a process of inverted redrawing which produces the final irregular shape of the finished tub and its roll-shaped rim. The machine shown in Fig. 2 illustrates the form of dies used in this operation. This illustration shows the dies as they appear upon the completion of the final drawing, a finished tub, just taken from the press, being shown in the hands of the operators on the right of the picture. The tub is shown in an inverted position, which is as it leaves the press. Projecting upward from the top of die A will be seen the ejector C, which is raised to lift the tub off of the die at the completion of the draw-

ing operation, but which is lowered so that it forms part of the die when it is not performing this function.

Before the semiformed tub is placed in the press for the finishing drawings which give the sloping end and roll-shaped rim, the ejector is lowered so that it comes flush with the surrounding surface of die A, and this die is then lowered until it is well down inside of the die box B. The work is then placed in this aperture, bottom down. Die D, which is hollowed out to correspond to its male die, A, and has its lower edges rounded to correspond to the roll of the rim of the tub, is then lowered, forcing the bottom of the semiformed tub to the top of die A.

The latter then assumes an ascending movement forcing the metal upward inside of die D (turning the semiformed tub inside out), and through this inverted redrawing creating the finished form of the tub, the roll shaped rim being formed by the passing of the metal around the lower curved edges of die D.

When the tub leaves this machine it has its finished size and shape, but by passing one's hand along the sides and ends corrugations can be felt, which are the wrinkles resulting from the drawing operations. These must be eliminated, and it is for this purpose that the machine shown in Fig. 3 was designed. It has been named by Eugene H. Sloman, its inventor.

The Rocker-Roller Press

This is a gigantic machine, exerting simultaneously vertical, lateral, and diagonal pressures of sufficient volume to so change the flow of the metal as to result in a

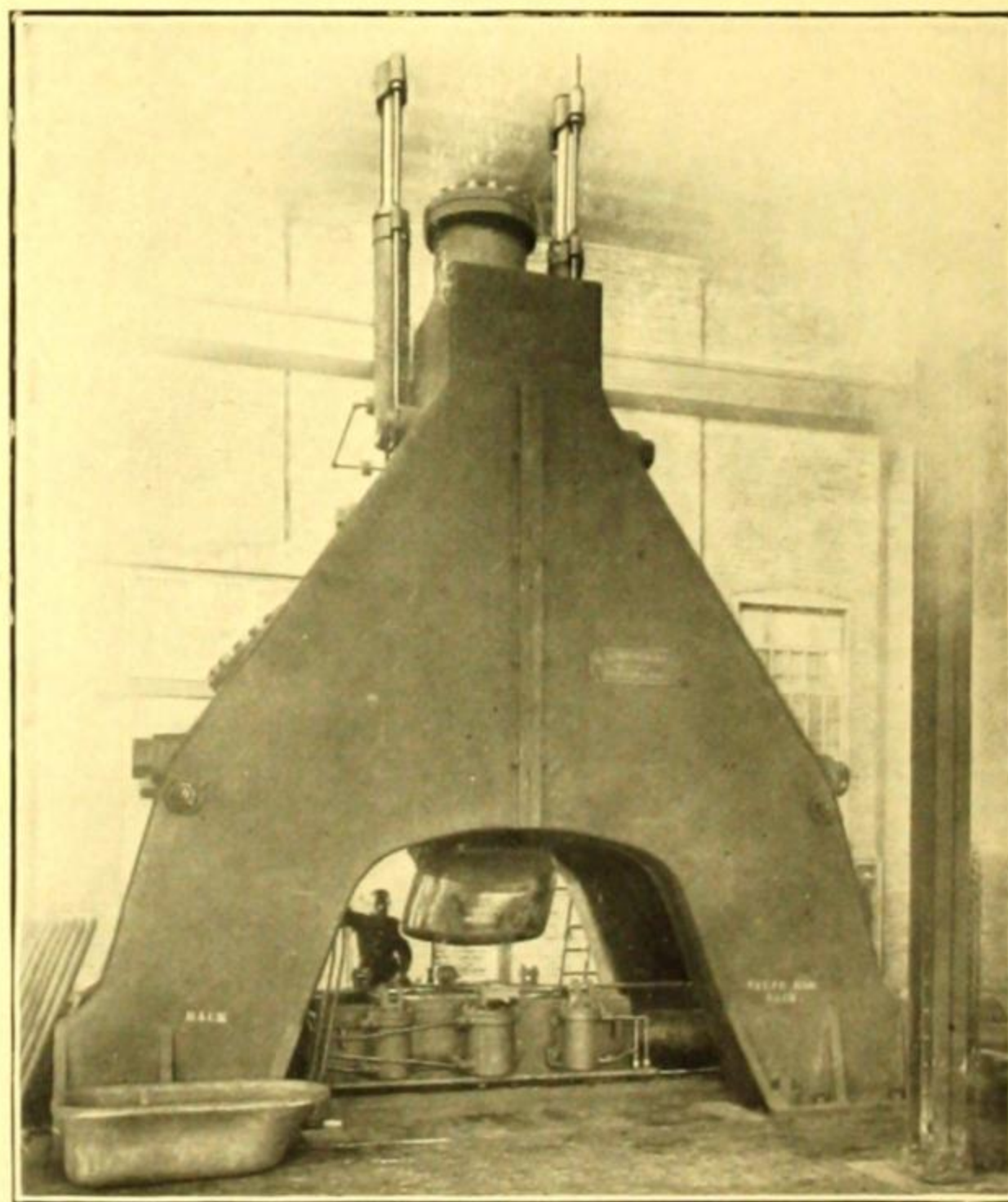


Figure 3—The Oscillating and Reciprocating Rocker-Roller Press

perfectly smooth surface throughout the entire tub. At the same time the metal is set so that in after heating, which of course is necessary in the enameling process,

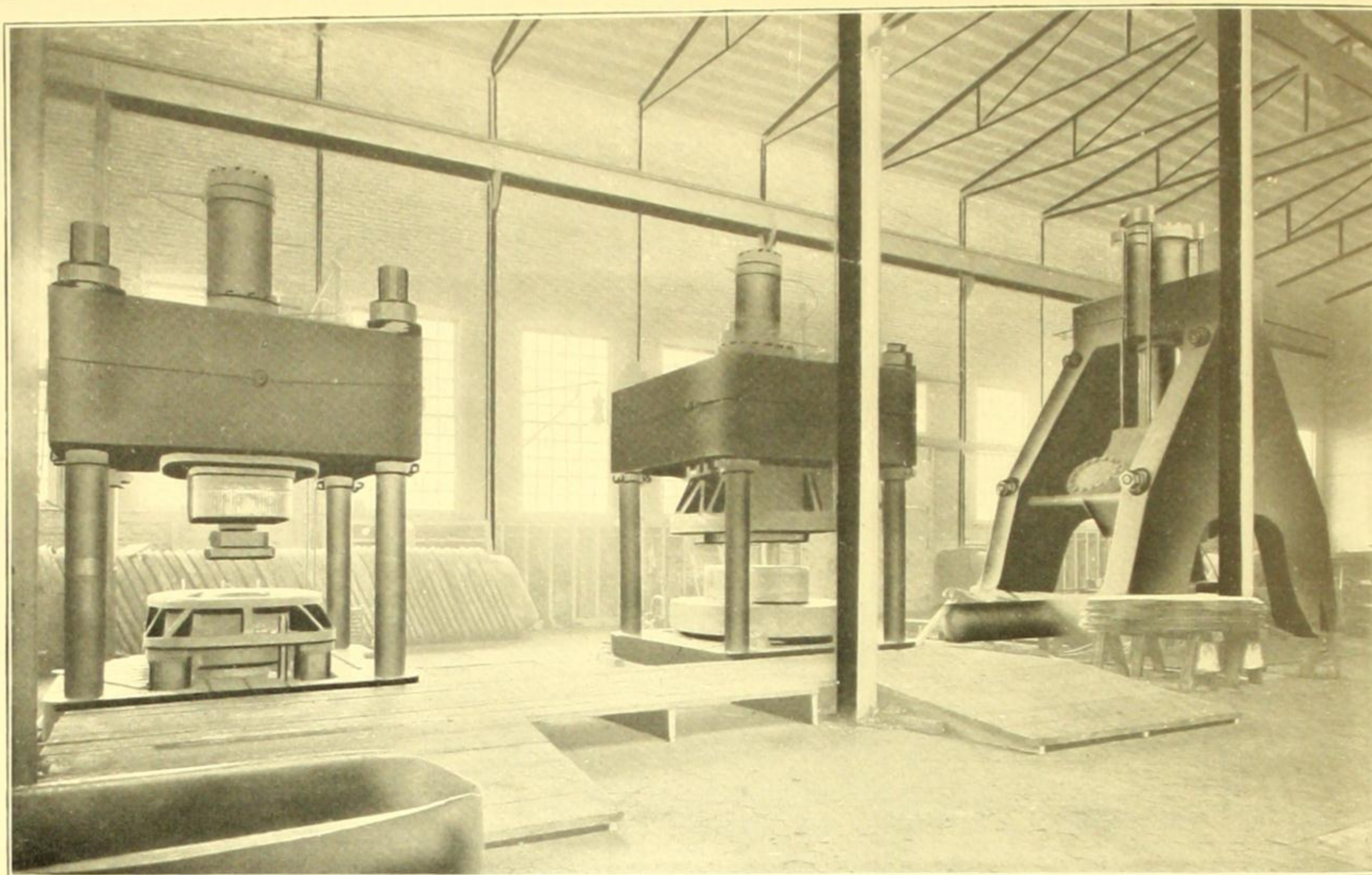


Figure 4—Another View of Presses Shown in Figure 1

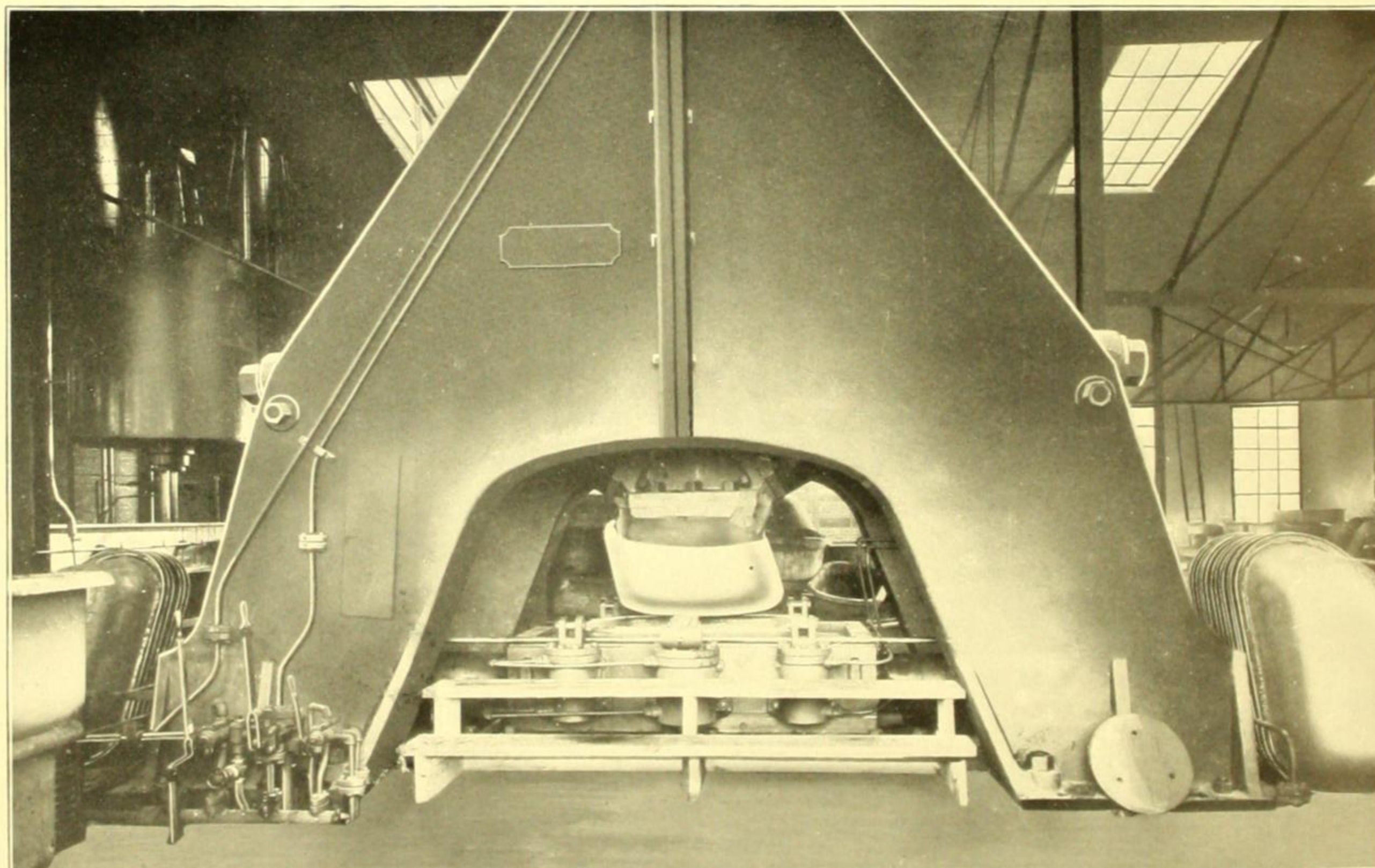


Figure 5—Another View of Oscillating and Reciprocating Roller Press Shown in Figure 3

there is no distortion due to the strains in the metal releasing themselves under the heat. This is accomplished by reason of the fact that in the rocker-roller press the metal in the irregular shape of a bath tub is rolled out just as evenly at every point and on the same principle as is a flat sheet when pressed between a pair of rolls. The accomplishment of this is surely unique.

into which it fits, and that its shape does not correspond to the shape of the tub longitudinally. When it is brought down into the center of the tub and the proper pressure exerted it fits on a knife edge transversely across the center of the tub. One of the horizontal rams is then placed in operation and the bedplate is pushed sideways, with the result that a rolling action takes place within the die,

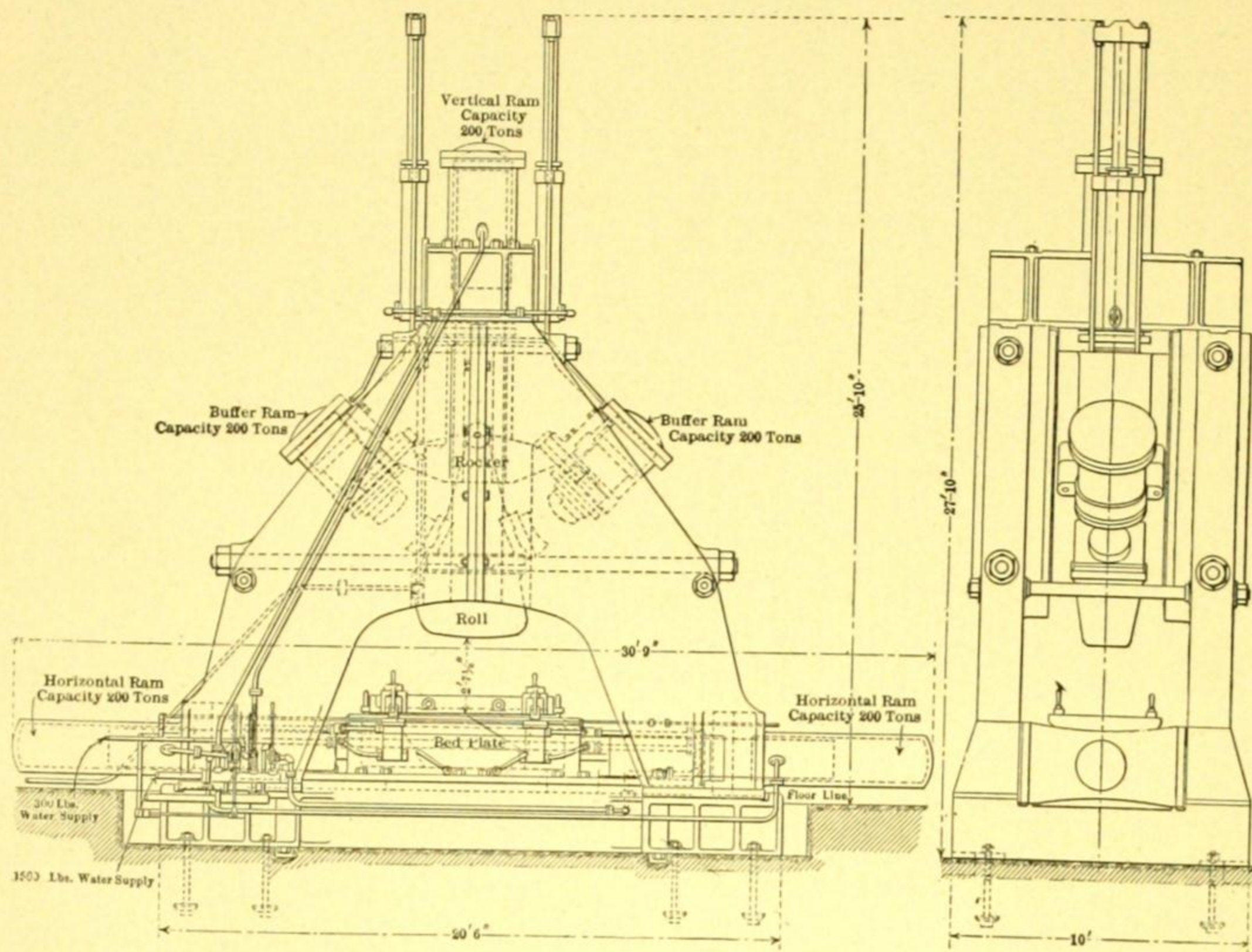


Figure 6—Side and End Elevations of the Rocker-Roller Press, Showing the Details of Construction and Principal Dimensions

The process consists of a cast-iron A frame, having a series of five hydraulic rams, each capable of exerting a pressure of 200 tons, and being so arranged that this pressure can be brought to bear in three directions simultaneously. The construction of the machine is shown in Fig. 6. It will be seen that the vertical ram carries a rocker, which permits the oscillation of the "roll" or punch suspended at its extreme lower end. Attached to each side of the rocker is a hydraulic buffer ram, and immediately above the "roll" two saddles are placed so as to come exactly in contact with the buffer rams when the oscillating end of the vertical ram is swung over sufficiently to either side. At each side of the machine at its base there is a horizontal ram also having a capacity of 200 tons pressure. Both of these rams are connected to a bedplate or die box, which when actuated by the horizontal rams, travels back and forth like the bedplate of a planer. In this bedplate there is a die into which the tub about to undergo the finishing or smoothing out process is placed.

The vertical ram is then lowered until the "roll" rests on the inside of the tub, as shown in Fig. 7. The downward pressure is then brought into play. It will be observed that the "roll" is somewhat smaller than the die

the "roll" slowly traveling with the bedplate as a result of the pressure of the horizontal ram. The shape of the "roll" is such that its end fits snugly into the end of the tub at just about the time when the saddle on the opposite side of the ram comes in contact with the buffer ram, as shown in Fig. 8. The simultaneous pressure of the three rams is then brought into play and just enough additional pressure is given the horizontal ram to overcome the pressure of both the vertical and buffer rams, with the result that the roll continues to roll the metal perfectly smooth right out to the rim of the tub. The horizontal ram on the opposite side of the machine is then brought into action, and the same process smooths out the opposite end of the tub.

The small vertical rams on each side of the bedplate shown in the illustrations were designed for clamping purposes, but it has been found unnecessary to use them

Punching

After the tub leaves the rocker-roller press it is taken to the hydraulic punch shown in Fig. 11, where in a single movement of the plunger the hole in the bottom of the

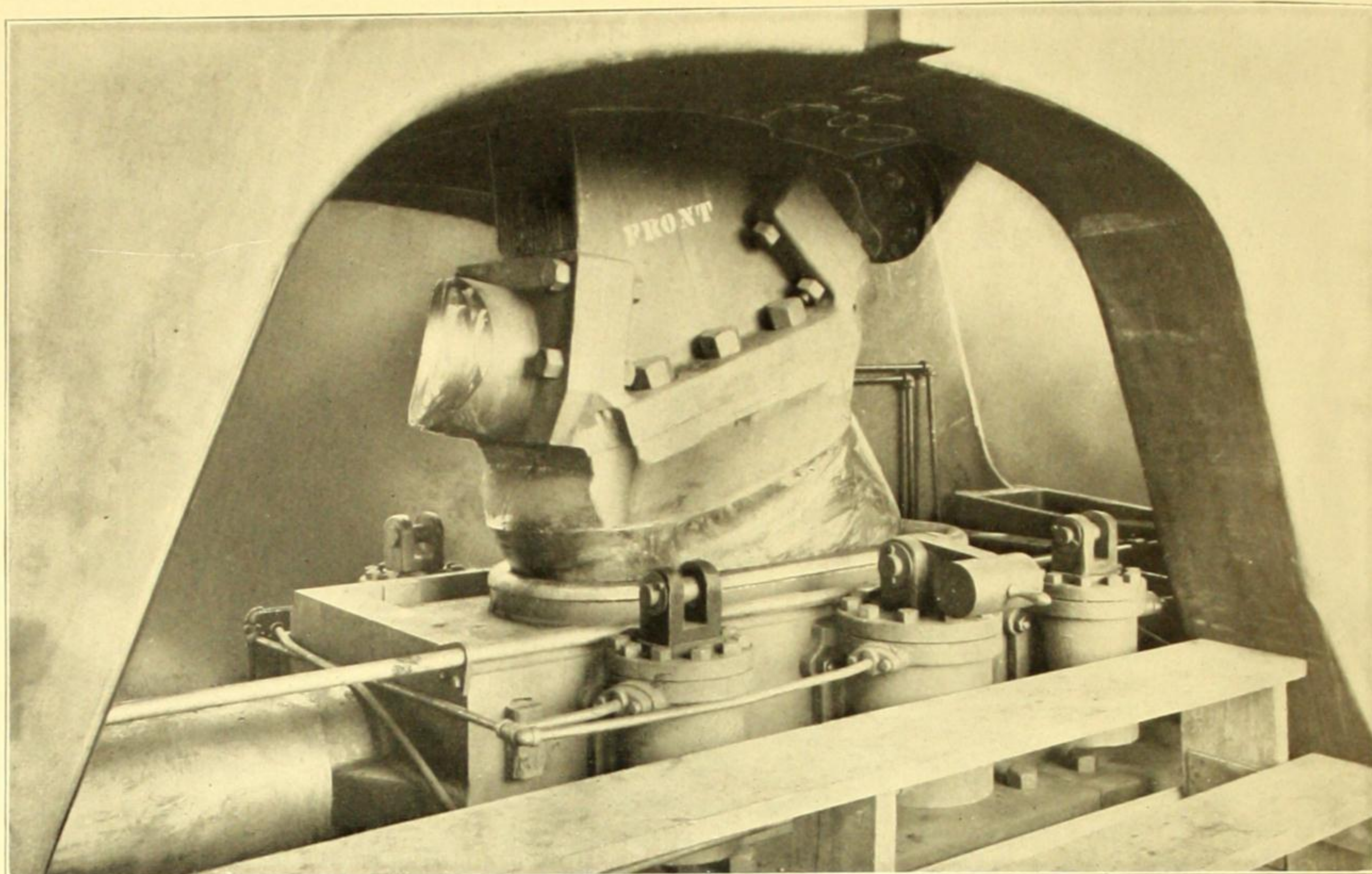


Figure 7—Detailed View of the Rocker-Roller Press, with the Roll in Position at the Beginning of the Rolling Operation

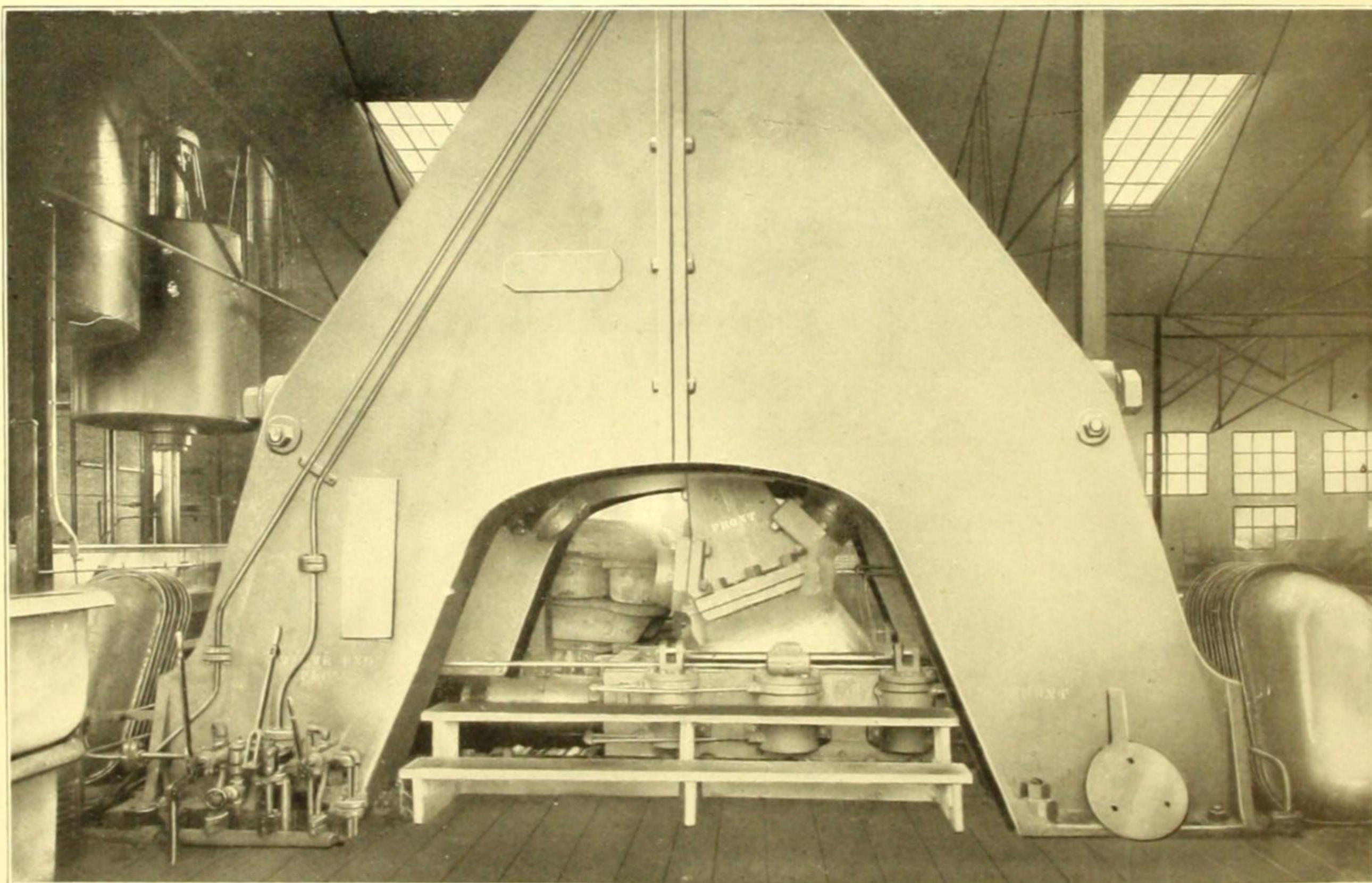


Figure 8—The Roll of the Rocker-Roller Press Rolling Out the End of a Tub, the Rocker Arm Being in Contact with one of the Buffer Rams and the Roll Raised Slightly to Give a Clearer View of the Operation

tub to which the waste pipe is attached is punched and a groove surrounding it is countersunk. The tub is then taken to a horizontal punch, as shown in Fig. 10. Here three holes are punched simultaneously in the end of the tub. These holes are for attaching the faucets and the overflow waste pipe.

Following this operation comes the cleaning. Wire brushes and sand blast are used for freeing the metal from scale and dirt and the tubs are ready for the Enameling Room.



Figure 9—The First Operation in the Enameling Process. Application of the "Slush" Coat to the Entire Surface of the Tub

Here the tubs are first given a slush coat, which is applied both inside and out by means of a brush, as shown in Fig. 9. They are then fired, being conveyed or

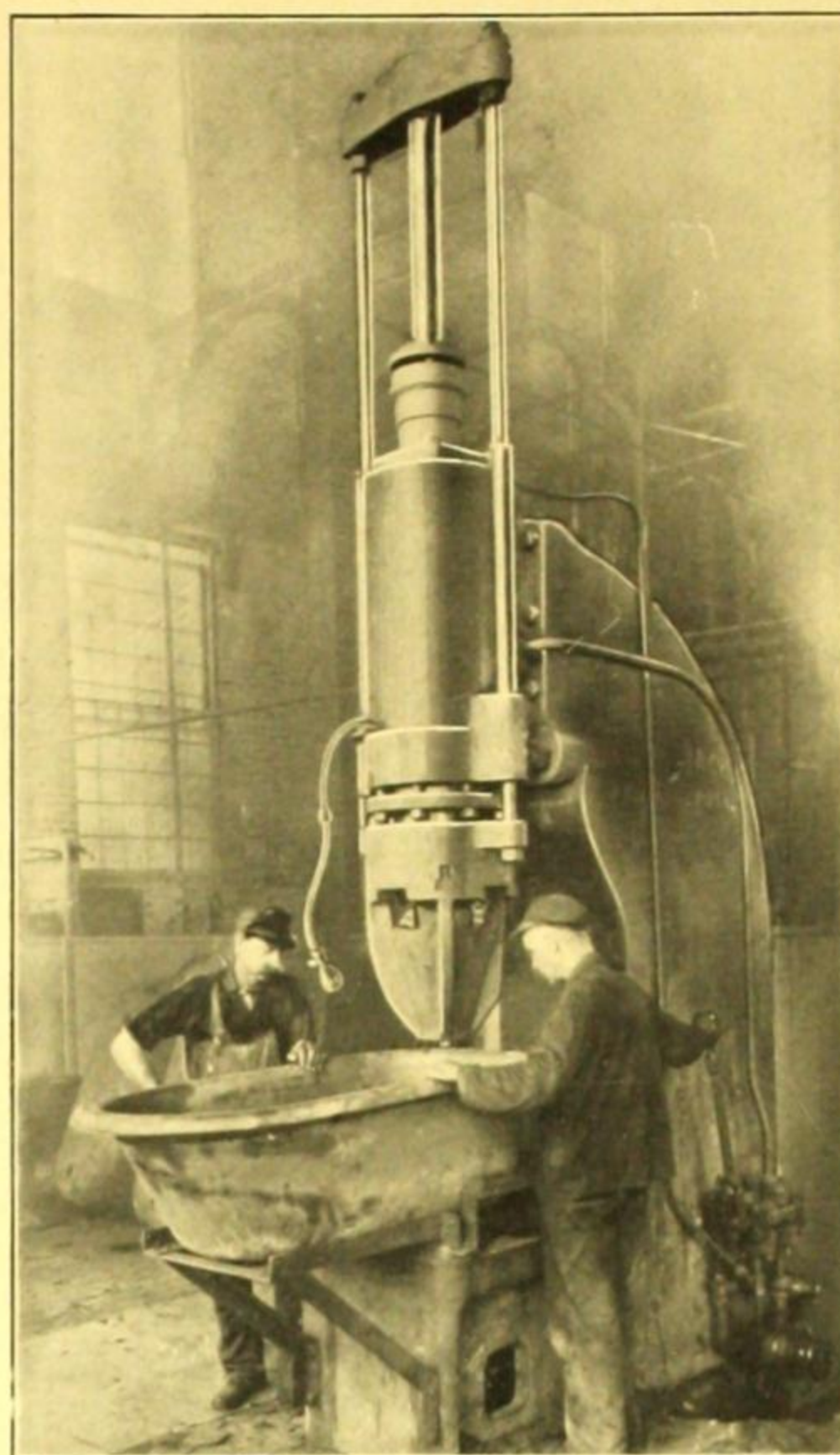


Figure 11—The Hydraulic Punch in Position to Punch the Hole for the Waste Pipe in the Bottom of the Tub



Figure 10—The Manner in Which the Three Holes at the End of the Tub, for Attaching Faucets and the Waste Pipes, are Punched in a Single Operation

"shipped" to the muffle furnace by means of a fork suspended by a chain from a jib crane, as shown in Fig. 12. After the firing the hot tubs are placed in the cradle shown in Figs. 12 and 13, and here the "dredging" operation is performed. This consists of sifting the porcelain over the inside surface of the tubs, as shown in Fig. 13. The porcelain, which is in the form of a very fine powder, is placed in the sieve at the end of the "dredge." At the opposite end of the handle there is a small pneumatic hammer which is set in motion, with the result that a slight steady vibration is given the dredger, causing the porcelain to fall in a thin even stream. As the operators move the "dredges" about, another man manipulates the cradle by means of handwheels, as shown in Fig. 13, so that the porcelain may fall on the sides and ends of the tubs. Another firing melts the porcelain powder so that the inner surface of the tubs obtains the hard glossy finish of a porcelain tub.

There are three of the muffle furnaces, each having a capacity of 75 tubs a day. Coal and coke are used as fuel. Another large furnace is used for making the porcelain, the balance of the equipment in this department consisting of grinding mills, dryers, and mixers.

Other Features of the Plant

The two principal buildings of the works are respectively 103x144 ft. and 103x126 ft. in size. They are

of steel, brick, concrete and tile construction throughout. Large windows and skylights afford plenty of daylight for the workingmen, this being particularly true in the enameling room.

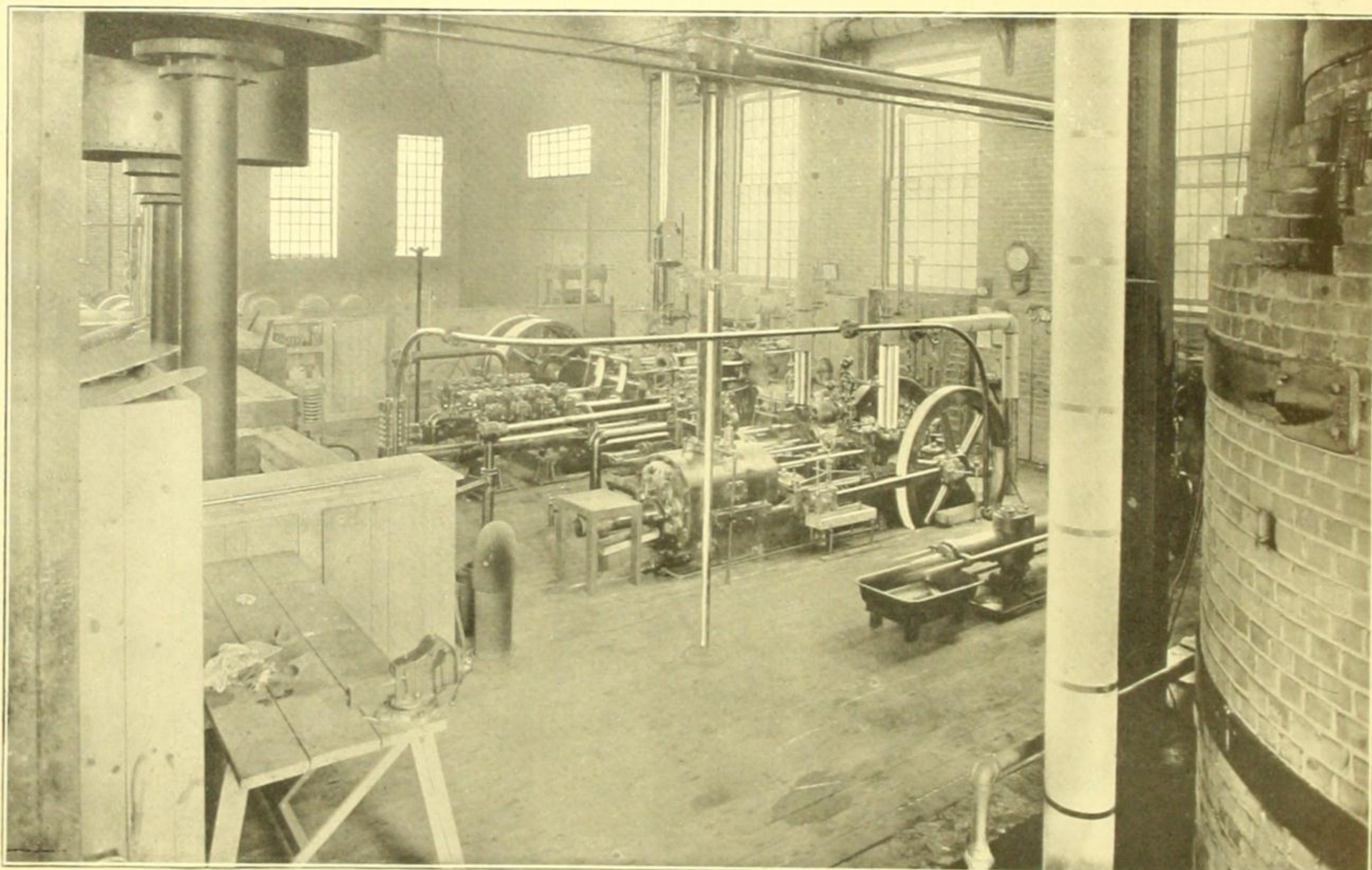
The hydraulic plants consist of three pumps having respective capacities of 2,000, 1,200, and 300 gallons per minute. Each of these pump into an accumulator. There is a 75-kw. Fort Wayne generating set used for lighting purposes and driving the few machines used in the plant that are not hydraulically operated. An air compressor of 250 cubic feet capacity is used for the air blast and a small air brake compressor furnishes the air used in the dredges in the porcelaining department.

An annealing furnace used in connection with the dredging operation has a capacity of 30 tubs an hour. The furnace is large enough to hold four tubs and as they are placed into it at one end and taken out at the other a tub remains under the heat for eight minutes.

Two Cahall vertical water tube boilers are employed, each having a capacity of 250 horsepower. When all of the furnaces are in operation the utilization of their waste heat is sufficient to operate the boilers.

Patents

Patents have been issued and others pending in this and foreign countries, covering the machinery and essential points of the process.



View of the Engine Room

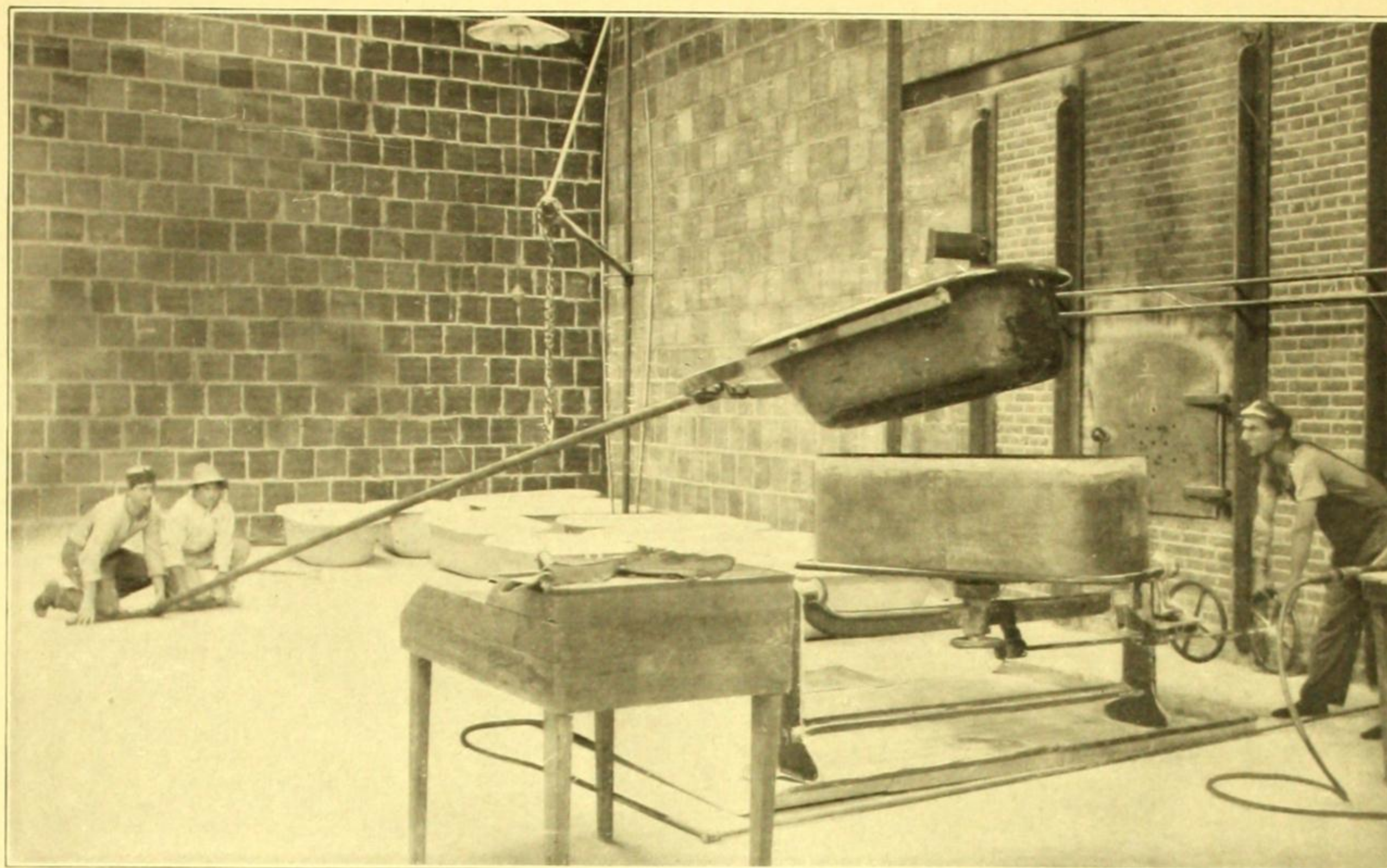


Figure 12—The Method of Handling the Tubs During the Enameling or Porcelaining Operation

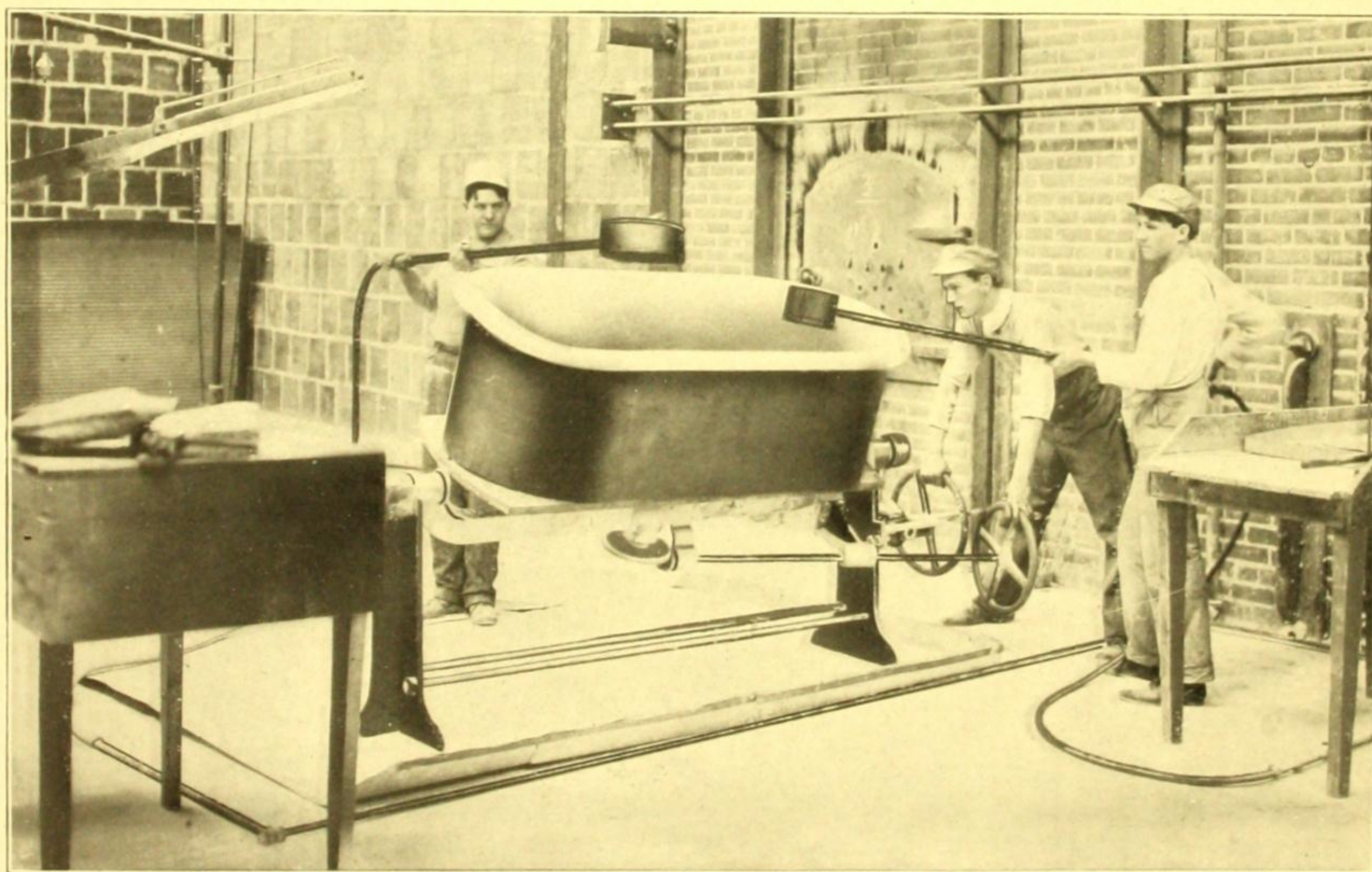
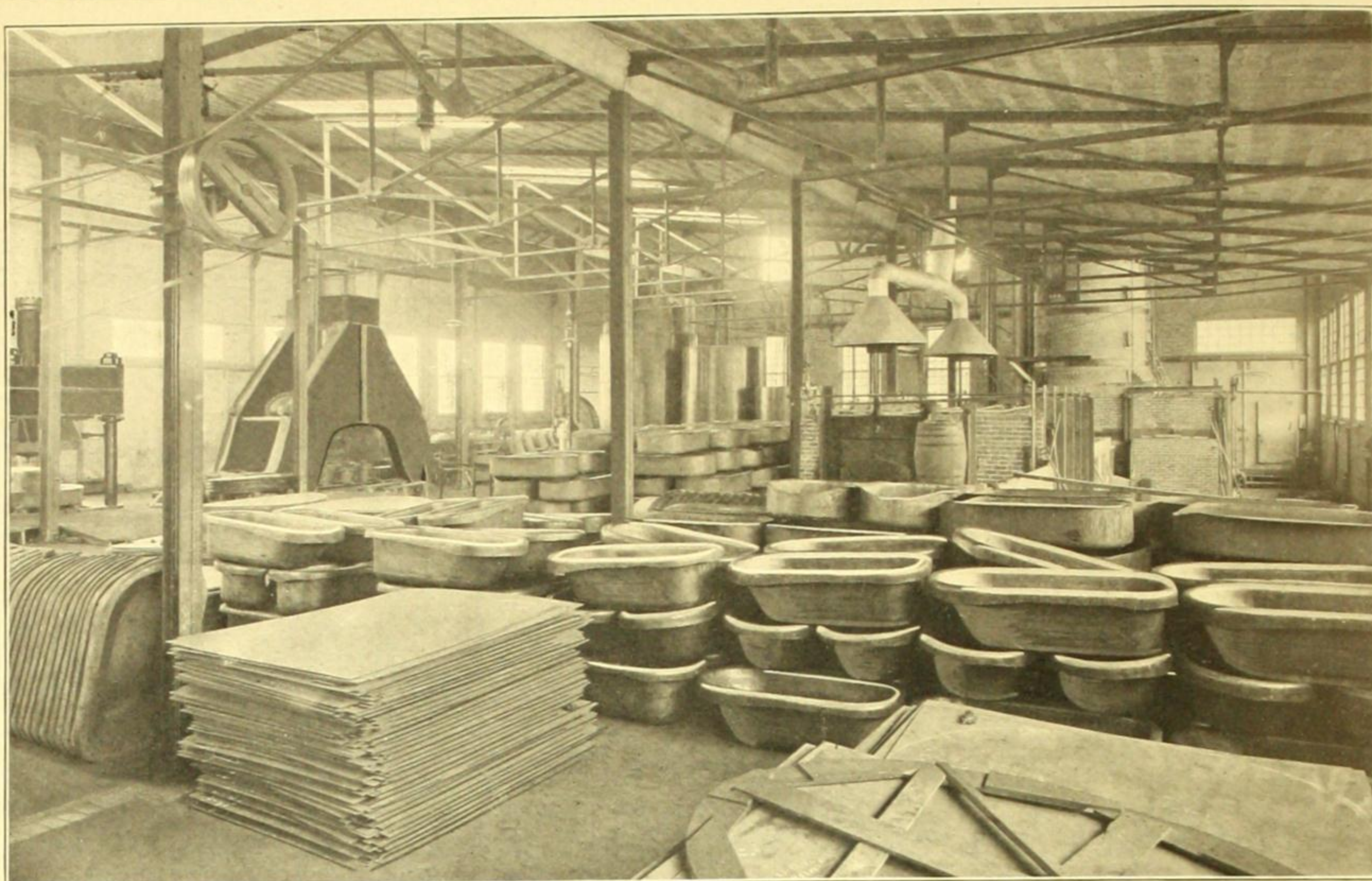
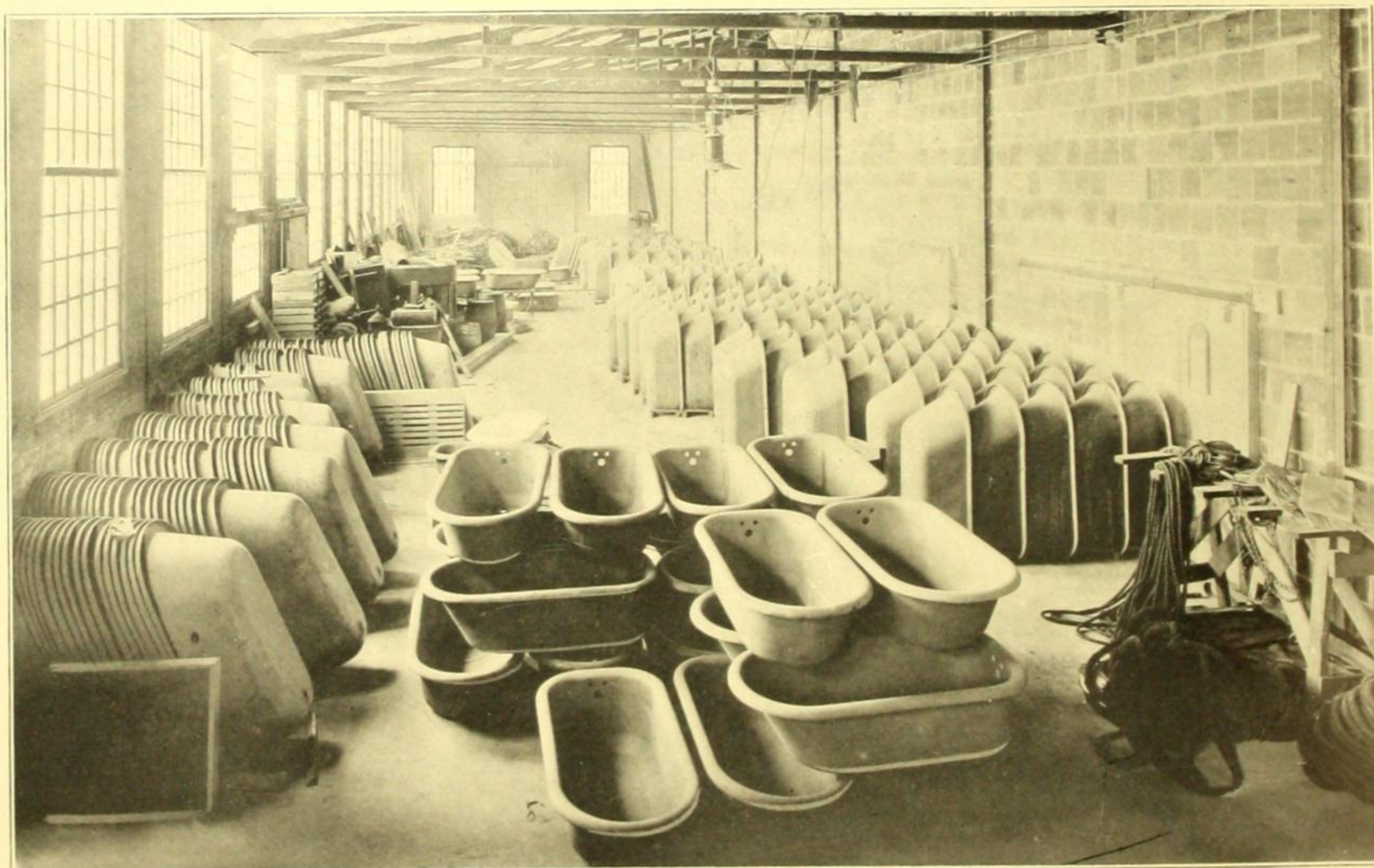


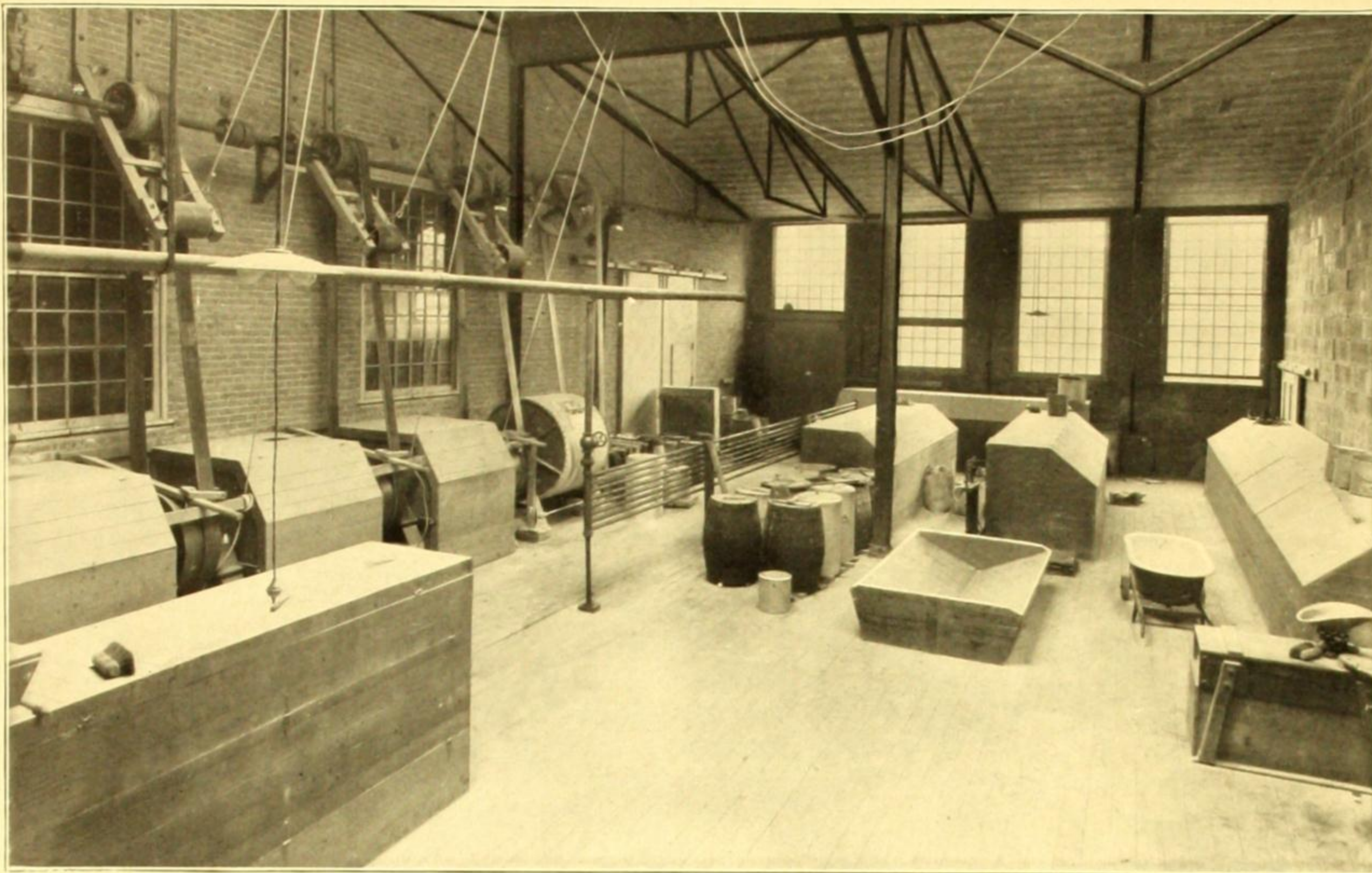
Figure 13—"Dredging" or Sprinkling the Powdered Porcelain on the Inner Surface and Rim of the Tub Before the Final Firing



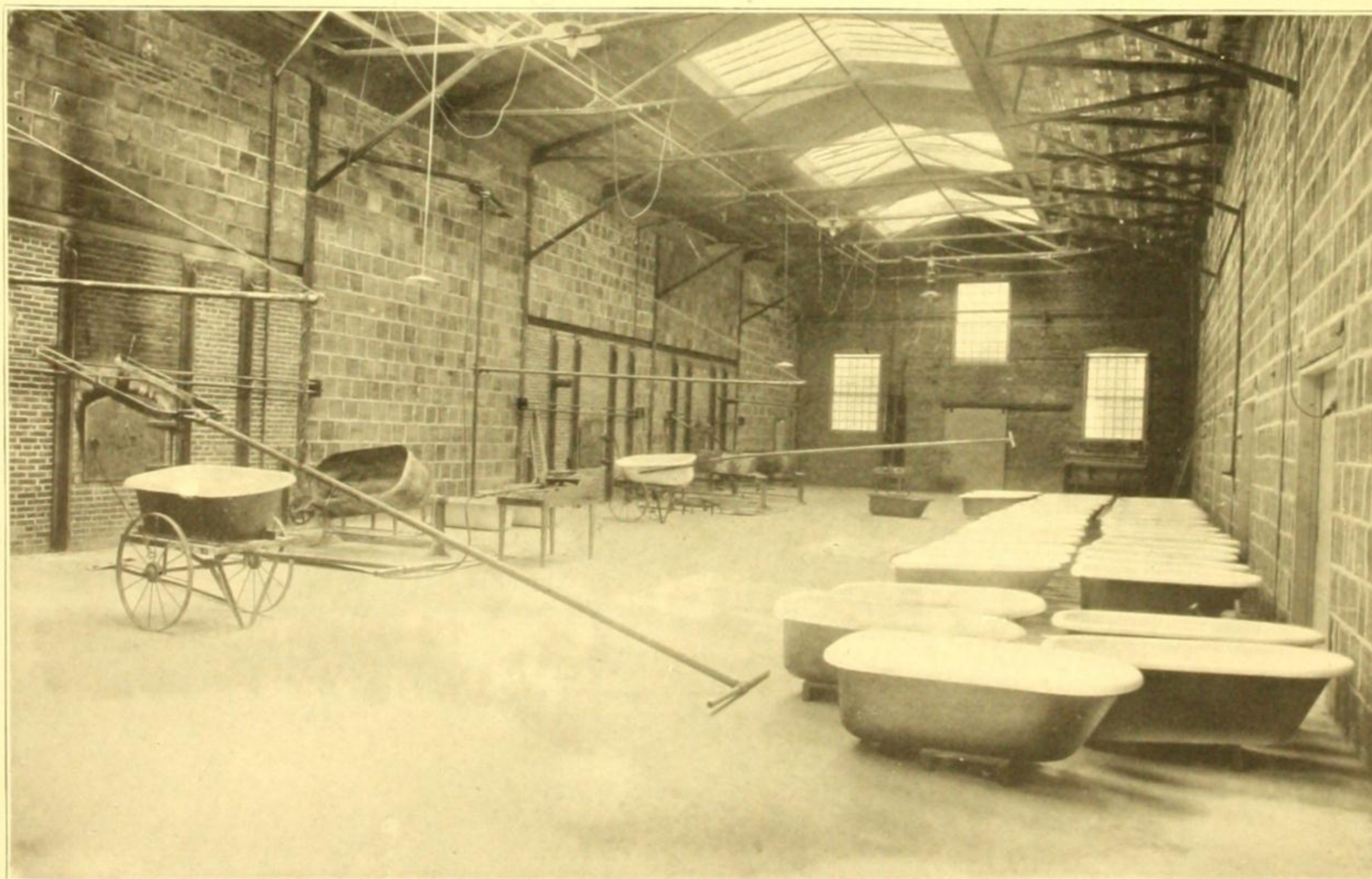
Unfinished Stock



Unfinished Product



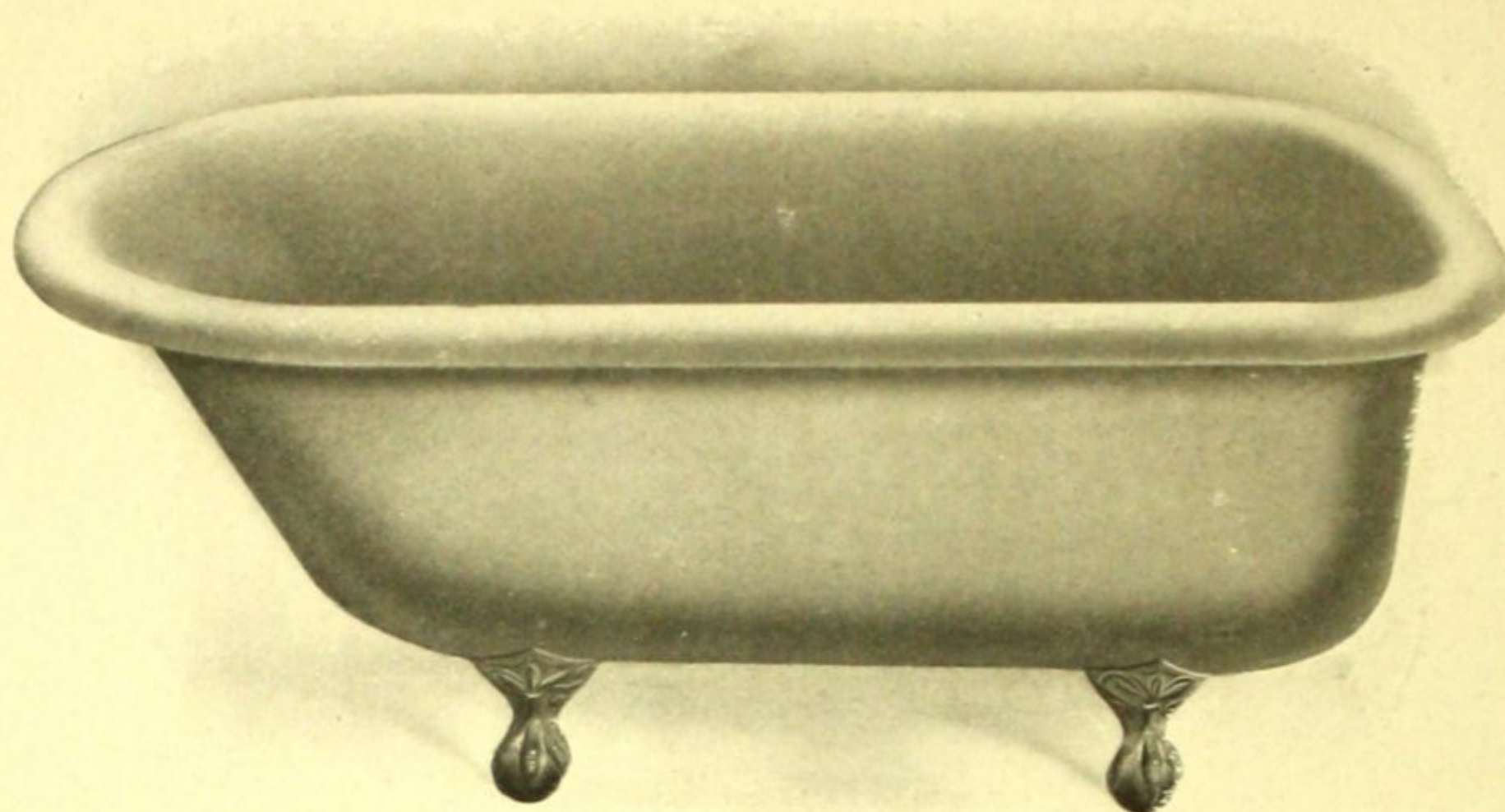
Porcelain Mixing Room



Porcelaining Furnaces and Cooling Room

Class X

Finished Steel Tub, but Not Porcelained



CODE WORDS AND DATA WITH LEGS

CODE WORD	ROLL RIM	SIZE	BARE WEIGHT	CRATED PACKED WEIGHT	PRICE
Rough	3"	5'	147 lbs.	182 lbs.	\$40.50
Rougher	3"	5' 6"	161 "	200 "	46.50
PLAIN SHELL, WITHOUT LEGS OR DRAIN HOLES					
Roughest	3"	5'	137 lbs.	172 lbs.	37.50
Roughing	3"	5' 6"	151 "	190 "	43.50

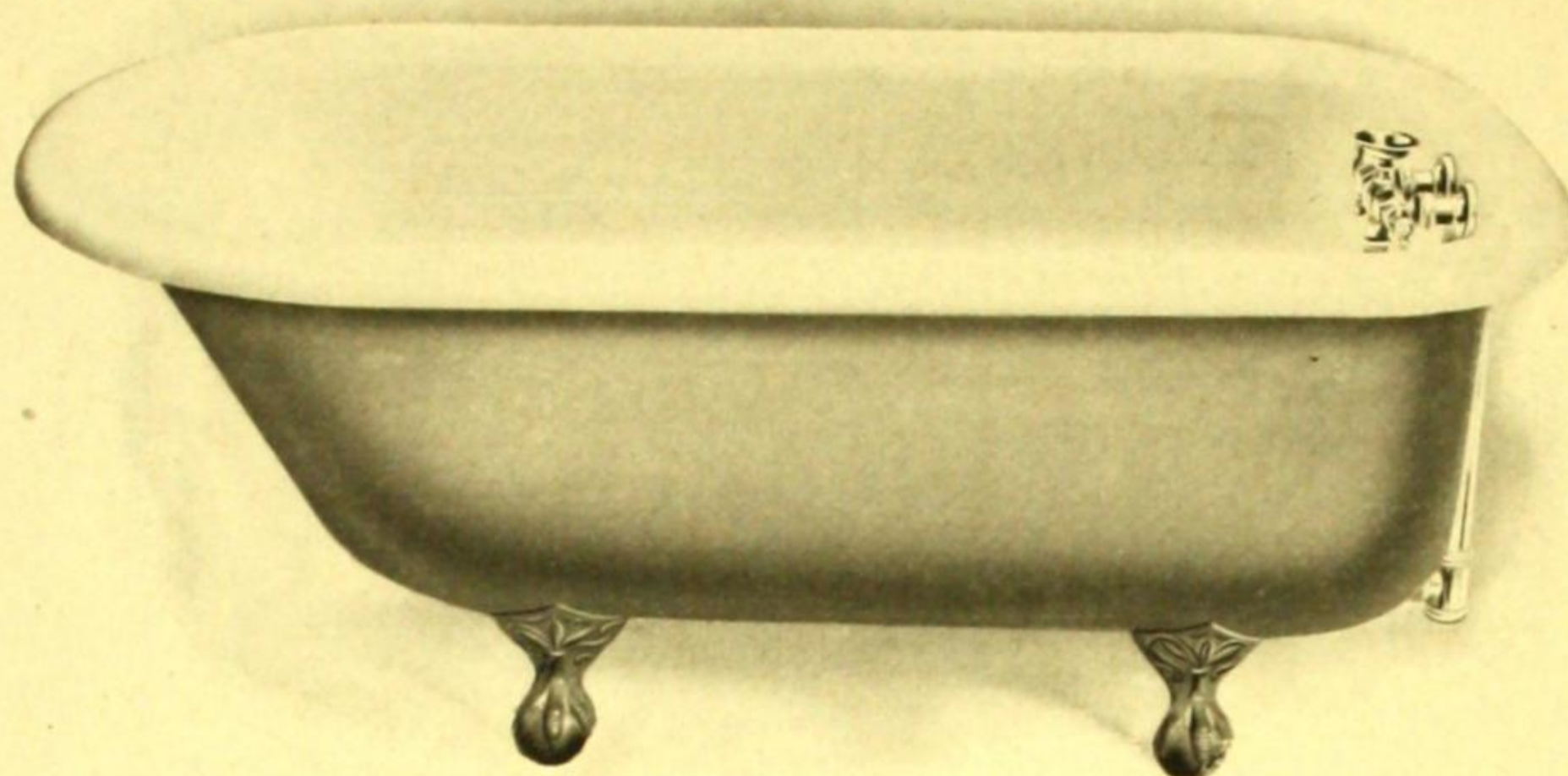
Unless otherwise ordered, shells will be punched as follows:

Waste hole, 1 7-8 inch; overflow, 2 inch; faucet holes, 1 1-4 inch.

Cable Address: "Fawn Detroit."

Class A

Porcelained Inside Steel Tub



CODE WORDS AND DATA

WITH LEGS

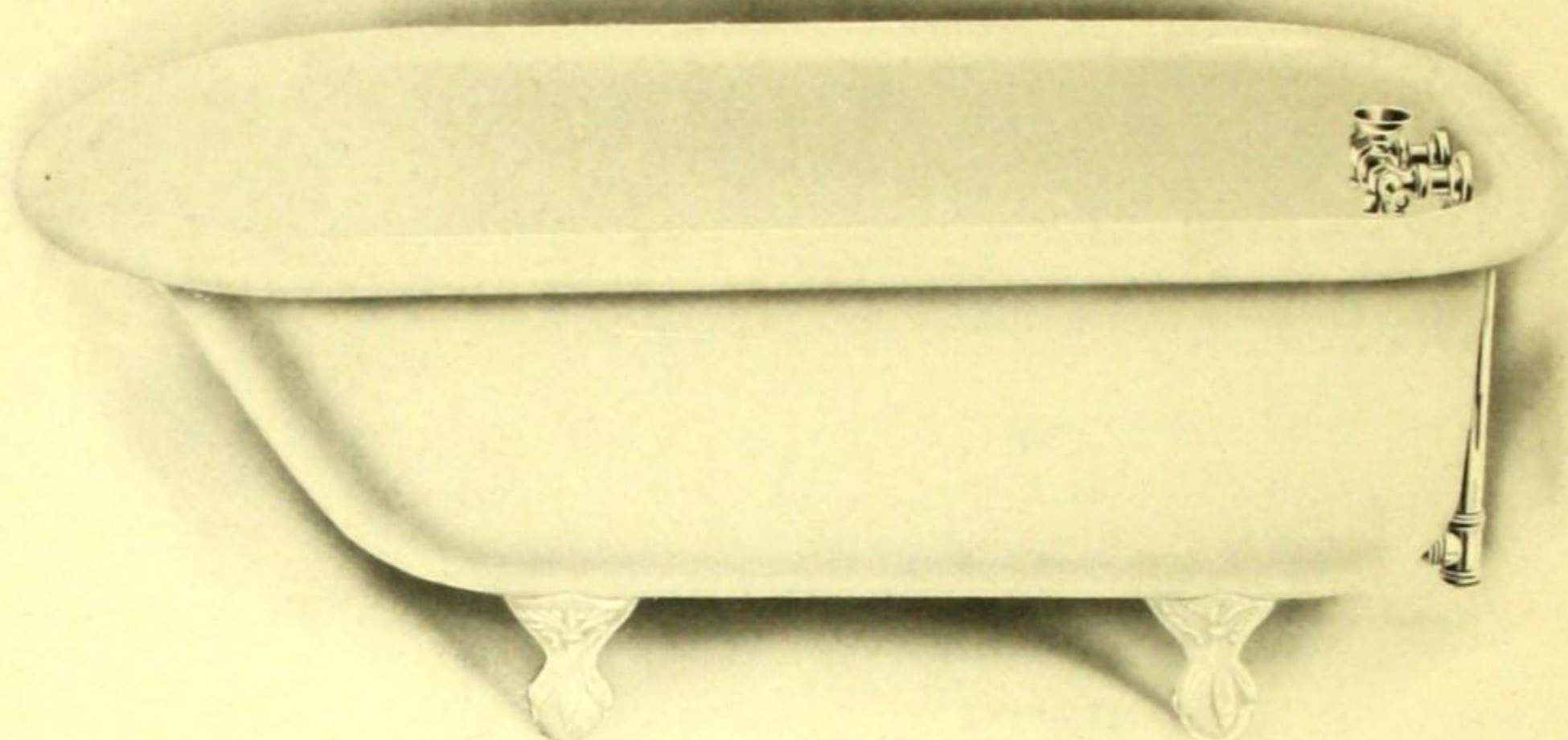
CODE WORD	ROLL RIM	SIZE	BARE WEIGHT	CRATED PACKED WEIGHT	PRICE
Lazarre	3"	5'	162 lbs.	197 lbs.	\$49.20
Iole	3"	5' 6"	178 "	217 "	56.70

Unless otherwise ordered, shells will be punched as follows:
Waste hole, 1 7-8 inch; overflow, 2 inch; faucet holes, 1 1-4 inch

Cable Address: "Fawn Detroit"

Class AA

Porcelained Inside and Outside Steel Tub.



SPECIAL NOTE—The Tubs produced by this Company are the only ones on the market that can be porcelained on *both sides successfully*, and are absolutely guaranteed for a period of years against all ordinary uses and the elements. This guarantee covers all contingencies excepting actual abuse.

CODE WORDS AND DATA

WITH LEGS

CODE WORD	ROLL RIM	SIZE	BARE WEIGHT	BOXED PACKED WEIGHT	PRICE
Queen	3"	5'	175 lbs.	265 lbs.	\$ 90.00
Princess	3"	5' 6"	192 "	290 "	103.50

Unless otherwise ordered, shells will be punched as follows:

Waste hole, 1 7-8 inch; overflow, 2 inch; faucet holes, 1 1-4 inch.

Cable Address: "Fawn Detroit"



Figure 1—Front View of Leg



Figure 2—Reverse View of Leg, showing clip and bolt in position

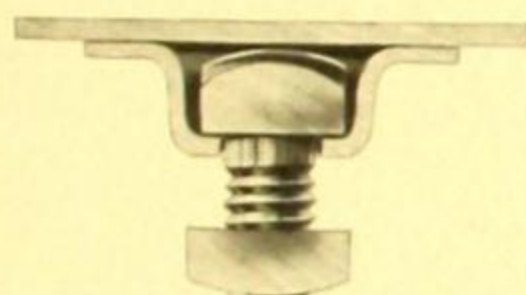


Figure 3—View of Clip Attached to Bottom of Tub with Bolt in Place

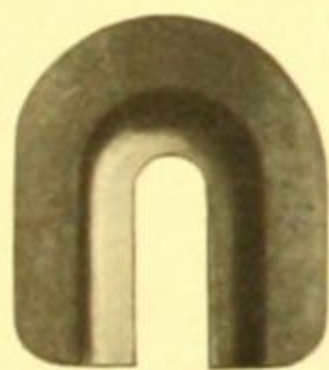


Figure 4—View of Clip

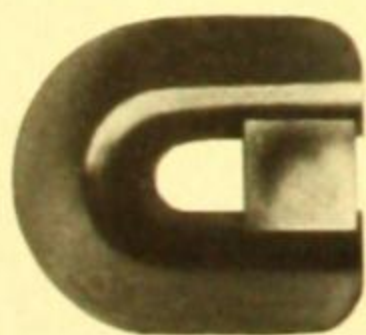


Figure 5—View of Clip

Method of Fastening Legs

The legs are of cast iron, and are of great strength and individually adjustable. Before porcelaining, four steel clips, as shown in Figures 4 and 5, are electrically welded to the four corners of the tub. The weld is so perfect that in testing the clips for strength, the metal pulls out *around the weld* at more than 5,000 lbs. pull. The adjustable bolt in the leg fits into the clip, as shown in Figure 3, and is then tightened. The weight of the tub resting on the upper part of the leg takes the strain off the bolt, as the fulcum point at the floor and tub is exactly perpendicular, so that in reality the bolt and clip act only to hold the leg in position. The legs and bolts are attached to the inner part of the crating for shipping purposes, and may be adjusted in a few minutes time, the entire installation requiring the services of only one man.

Legs of other Design can be Furnished to Order

Class AAA

Porcelained Inside and Outside Steel Tub



With Coat of Arms, in Colors, Burned into the Porcelain

CODE WORDS AND DATA

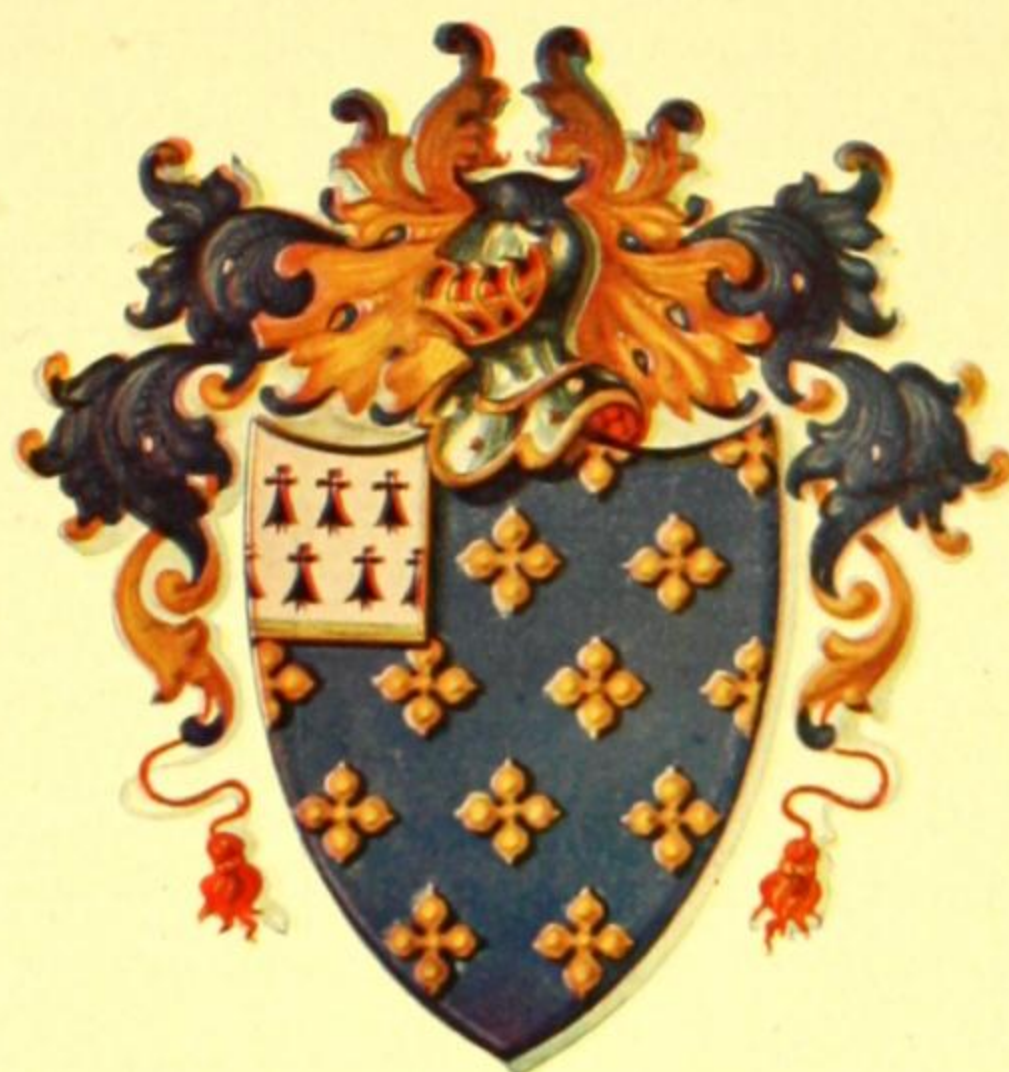
CODE WORD	ROLL RIM	SIZE	BARE WEIGHT	BOXED PACKED WEIGHT	PRICE
Pontchart	3"	5'	175 LBS.	265 LBS.	\$225.00
Pontchartrain	3"	5' 6"	192 LBS.	290 LBS.	261.00

Unless otherwise ordered, shells will be punched as follows:
Waste hole, 1 7-8 inch; overflow, 2 inch; faucet holes, 1 1-4 inch.

Cable Address: "Fawn Detroit"

Porcelaining

With the advent of the Seamless Steel Tub, we claim to be the only company that is producing tubs porcelained on both sides. The fact that steel permits of porcelaining on both sides opens up a wide field not heretofore covered, and we now offer to the trade a product superior to anything on the market.



Phélypeaux
Count Pontchartrain

Art Decorations

We particularly solicit high grade and artistic work. We are burning into the porcelain reproductions in colors of crests and famous masterpieces, a feat never before accomplished.

An idea of the beauty of this work may be gained from the reproduction of the crest which appears on the tubs furnished by us for the new Hotel Pontchartrain, of Detroit. We employ master artists and solicit special orders. The paintings are thoroughly burned into the porcelain, becoming part of the porcelain itself, and are guaranteed to last indefinitely.

Terms and Sales Information

Terms of sale to customers with established credit, 60 days net or two per cent cash 10 days. Payments may be made by Bank Draft, Post Office or Express Money Order, or Registered Letter. We are not responsible for remittances lost in the mails.

New customers, unless satisfactorily rated by the Commercial Agencies, should send references with their first order and a brief statement of their financial condition. This will enable us to ship promptly.

Orders for C. O. D. shipment should be sent with remittance to cover transportation both ways. This company will open no consignment accounts under any circumstances.

Crating

Fifty cents net will be charged for crating for domestic shipment of tubs porcelainized inside; \$2.00 net for boxing of tubs porcelainized inside and outside.

Shipments

Every order should bear clear and definite shipping instruction specifying time and route of shipment. In the absence of these this company will ship by such route as may seem best, but will assume no responsibility for such action.

Guarantee

Every tub is guaranteed to be free from inherent and mechanical defects. This company will repair or replace, at its option, without cost to the buyer, any tub proving defective within five years from the day it is shipped by this company, but will not be responsible for consequential damages.

Claims

Claims for shortages, differences, or defects must be made within ten days.

Samples

Prior to June 1, 1907, this company will send samples of tubs to any responsible dealer in the United States, subject to return for any reason whatever at the expense of this company at the end of a reasonable inspection period.

Patents

Full legal right to manufacture and sell the products described in this catalog is secured through letters patent. Purchasers of this product incur no liability of suit for patent infringement.

Patents have been taken out in all foreign countries. This company has no desire to engage in or provoke litigation, but will take any necessary steps to prevent infringement of its rights.



FAWN

REGISTERED

The word "Fawn" suggests to the mind at once, youth, strength, daintiness, something pleasing to the sight, and a natural desire for possession. We believe that our trade mark is peculiarly significant of the high and pleasing qualities of our product, and that those wanting the best will be more than satisfied with a "Fawn."

Private Telegraph Code

Shipments

Retard	Can make shipment inside of.....
Retardiat	Cancel our order for shipment to....
Retardiber	Hasten the shipment of.....
Retardicat	Have received entire shipment
Retardiden	If shipment not already made hold order for further instructions
Retardier	Immediate shipment
Retardifat	Notify us when our order for..... is ready for shipment
Retardig	Shipment made
Retardihart	Shipment need not be made until...
Retardijet	Shipment is satisfactory
Retardikat	Shipment withindays
Retardiler	We have ready for shipment
Retardiman	When can you make shipment
Retardinet	When can you make shipment of..
Retardio	When will shipments be made
Retardipat	Are holding your order No..... for shipping directions
Retardiqr	Awaiting shipping directions
Retardiras	By what railroad will you ship
Retardis	Can ship immediately
Retarditer	Can ship at once upon receipt of order
Retardiut	Cannot ship immediately
Retardivar	Have shipped as directed
Retardix	Have shipped by freight
Retardixes	Have shipped by express
Retardiyat	Have you shipped
Retardiz	How are we to ship
Repac	How much can you ship
Repaciat	How much did you ship
Repacibas	If you cannot ship within time named advise us by telegraph
Repacic	Ship at your discretion
Repacidat	Ship by cheapest way
Repacient	Ship by fast freight
Repacifar	Ship by express
Repacig	Ship by quickest route
Repacihent	Ship what you have ready and let the balance follow as soon as possible
Repacijat	Telegraph as soon as shipped

Telegrams

Repacikas	Acknowledge by wire
Repacils	Address as per our telegram of....
Repaciman	Advise by wire regarding
Repacinent	Answer by telegraph immediately
Repacio	Answering your telegram of.....
Repacipar	We await answer to our telegram of
Repaciquar	Give particulars by telegraph
Repaciras	Telegraph your price
Repacison	Referring to my telegram of.....
Repacit	Referring to your telegram of.....
Repaciuent	Telegraph as soon as you can
Repacivat	As soon as you have an answer telegraph us
Repaciwan	Await our telegraphic instructions
Repacixer	Referring to our telegram of.....
Repaciyou	Telegram received and shall have our immediate attention
Repaciza	Telegraph immediately what you can do
Rebound	To what telegram do you refer
Reboundia	We confirm our last telegram
Reboundibat	We confirm our telegram of.....

Orders

Reboundicon	Cannot fill your order No. and have cancelled it
Reboundidant	Cancel our order and await further instructions
Reboundier	Prepay freight
Reboundifas	Are awaiting your orders
Reboundigan	As per order
Reboundihar	Cancel orders contained in our letter of
Reboundijer	Goods ordered will be forwarded at once
Reboundikat	Has our order been shipped
Reboundilant	Must await your remittance before executing order
Reboundimar	Order by catalog number
Rebounding	Ship in addition to previous order..
Reboundios	What is the earliest date you can fill our order

Private Telegraph Code

Orders

Reboundipas	When will goods be shipped that were ordered on,
Reboundiquar	Your order for is ready for shipment and we await your further instructions
Reboundirat	Have sent tracer after goods
Reboundis	Are tracing
Rebounditon	Have started telegraphic tracer after your order of
Reboundiut	Will trace
Reboundivan	Send tracer after our order of

Quotations

Replant	Give quotation less than carloads
Replantia	Give quotation in carloads
Replantibant	Give quotation, cost and freight less than carloads
Replanticar	Give quotation, cost and freight in carloads
Replantides	Referring to quotation dated
Replantient	Telegraph price you have quoted or propose to quote
Replantifat	Telegraph us today quotations for . .
Replantigas	We have catalog telegraph discount less than carloads
Replantih	We have catalog. Telegraph discount in carloads

Deliveries

Recantiber	Can deliver days f. o. b. cars
Recanticant	Can you deliver in days f. o. b. cars
Recantided	Give date when delivered
Recantier	When will goods be ready for delivery.

Letters

Recantifas	Acknowledge by mail
Recantiger	Address as per our letter of
Recantihad	Advise by mail regarding
Recantijas	Answer by mail
Recantiket	Answering your letter of
Recantilam	We await answer to our letter of
Recantimal	Will answer by mail inquiry regarding
Recantinend	Awaiting letter
Recantiot	Detailed letter follows
Recantipast	Give particulars by letter
Recantiquart	Referring to our letter in regard to . .
Recantiras	Referring to your letter in regard to
Recantisent	Referring to my letter of
Recantitar	Referring to your letter of

Miscellaneous

Recantiu	Acknowledge receipt of
Recantivast	Your acknowledgement is necessary
Recantiwart	Advise us if goods have reached you
Recantixant	Alterations have been made in accordance with your wishes
Recantiyou	Make necessary alterations
Recantizar	Make no alterations
Redoubt	What is the amount of the invoice
Redoubtia	What is the total amount of
Redoubtibant	It will have our immediate attention
Redoubticar	Bill of lading mailed by this post
Redoubtidend	Forward us bill of lading
Redoubtier	Catalog No. is
Redoubtifast	See our Catalog No.
Redoubtigand	Advise promptly in case of any change
Redoubtihart	Prepay all charges
Redoubtijan	Please make necessary corrections
Redoubtikas	At what rate can you
Redoubtilent	Can do nothing until you reply
Redoutimad	Write with full particulars

Hotel Pontchartrain

DETROIT



WESTINGHOUSE, CHURCH, KERR & CO., Engineers
GEO. D. MASON, Architect

This Hotel will contain 170 Class AAA Seamless Steel Tubs, Porcelained inside and outside, and decorated with hand-painted crests, burned into the porcelain

The Advantages of Steel Tubs

- ¶ Durability.
- ¶ Lightness, combined with strength.
- ¶ Can be porcelainized inside and outside.
- ¶ Permit of a high permanent decoration.
- ¶ Take the temperature of the water almost instantly with little absorption of heat.
- ¶ Economy in weight, with reference to floor construction in hotels and apartment houses.

Guaranteed for a period of five years.

“Dainty as a Dresden china dish”

The "Fawn" Seamless Steel Tub is a
guarantee of strength, comfort
and artistic taste.